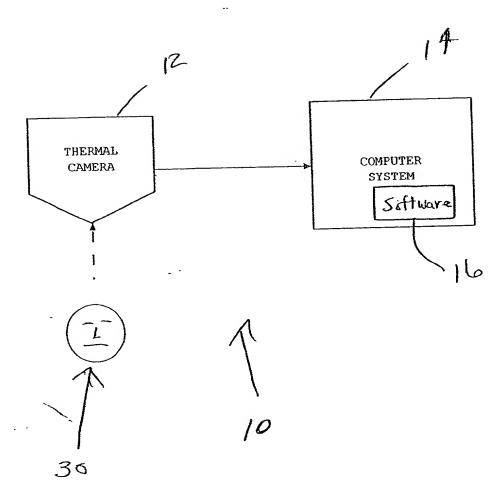
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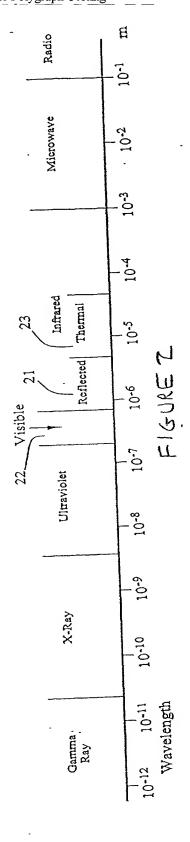
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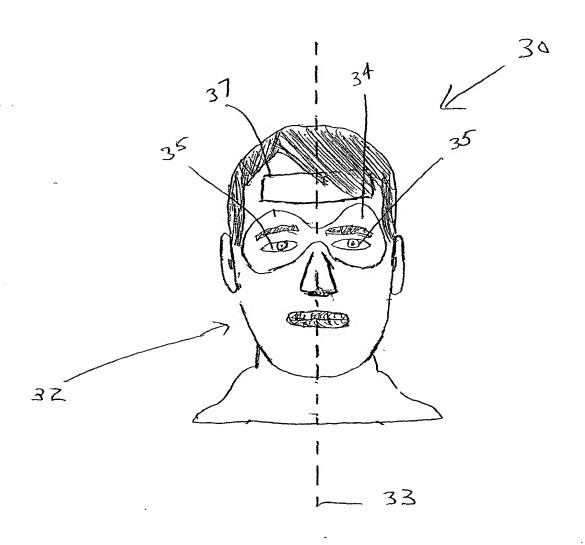


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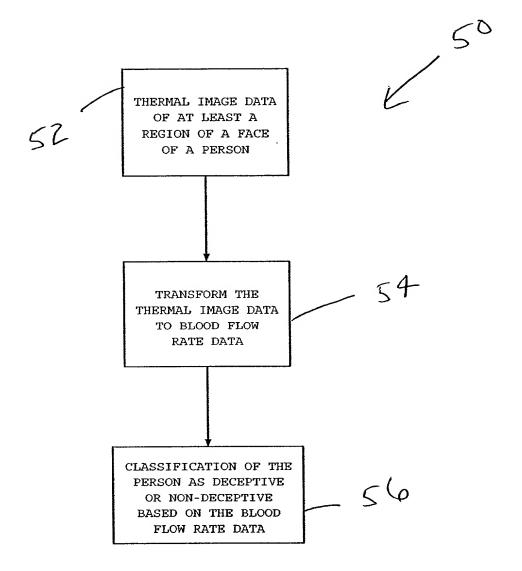


# FIGURE 3



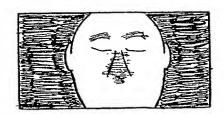
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F18. 4

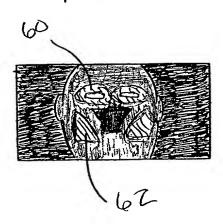


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F16.5A



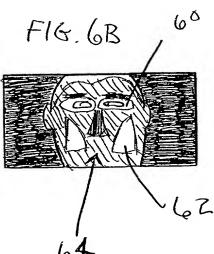
F16. 6A



F16.5B



F16.6B



RECIEVING THERMAL IMAGE DATA OF AT LEAST A REGION OF A

> PERSON'S FACE DURING A RESPONSE TO A QUESTION

DETERMINE CHANGE OF THE BLOOD FLOW RATE OVER TIME (e.g., slope)

201

IOANNIS PAVLIDIS, ET AL H0002443-02 John G. Shudy, Jr., Attorney System & Method Using Thermal Image Analysis & Slope Threshold Classification for Polygraph Testing RECIEVING THERMAL IMAGE 110 DATA OF AT LEAST A REGION OF A PERSON'S FACE DURING A RESPONSE TO A QUESTION DETERMINE CHANGE OF THE BLOOD FLOW RATE OVER TIME (e.g., slope)

GENERATING A SLOPE THRESHOLD

COMPARING THE SLOPE FOR A PERSON'S RESPONSE TO THE OUESTION TO THE SLOPE THRESHOLD TO CLASSIFY THE RESPONSE AS DECEPTIVE OR NON-DECEPTIVE

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FIG. 11B

RECIEVING THERMAL IMAGE DATA
OF AT LEAST A REGION OF A
PERSON'S FACE DURING
QUESTION AND RESPONSE
PERIODS OF TIME

120

DETERMINE CHANGE OF THE
BLOOD FLOW RATE OVER TIME FOR
BOTH QUESTION AND RESPONSE TIME
PERIODS AND PROVIDE PRODUCT
SLOPE.

122

GENERATING A PRODUCT SLOPE THRESHOLD BASED ON QUESTION AND RESPONSE SLOPES -124

COMPARING THE PRODUCT SLOPE FOR A PERSON TO THE PRODUCT SLOPE THRESHOLD TO CLASSIFY THE RESPONSE AS DECEPTIVE OR NON-DECEPTIVE 126

IOANNIS PAVLIDIS, ET AL H0002443-02
John G. Shudy, Jr., Attorney
System & Method Using Thermal Image
Analysis & Slope Threshold Classification
for Polygraph Testing

